

Title (en)
PROPYLENE-BASED COMPOSITIONS OF ENHANCED APPEARANCE AND EXCELLENT MOLD FLOWABILITY

Title (de)
PROPYLENBASIERTE ZUSAMMENSETZUNGEN MIT ERWEITERTEM ERSCHEINUNGSBILD UND HERVORRAGENDER FLIESSFÄHIGKEIT

Title (fr)
COMPOSITIONS À BASE DE PROPYLÈNE D'ASPECT AMÉLIORÉ ET À EXCELLENT ÉCOULEMENT EN MOULE

Publication
EP 3087135 A4 20170510 (EN)

Application
EP 14875609 A 20141223

Priority

- US 201314138352 A 20131223
- US 2014072262 W 20141223

Abstract (en)
[origin: WO2015100374A2] The present disclosure relates to a class of impact copolymer polypropylene (ICP) compositions exhibiting the advantageous combination of excellent tiger (flow) marking performance in large/long molded parts, very low gels count and exceptional mold flowability (high MFR) despite the high viscosity ratio (e.g., > 4) between rubber and propylene based matrix phases. Furthermore, it has been surprisingly found that the inventive compositions are associated with a low gels count even when using a quite coarse mesh wire screen, e.g., 60 mesh wire screen, independent of screw type e.g., twin or single screw. Finally, the inventive compositions exhibit significantly reduced the levels of volatiles, and excellent stiffness-impact balance used as standalone materials or in filled compounds. The significantly reduced number of large gels leads to excellent surface appearance and paintability of the molded parts. The composition of the present disclosure is made with a bulk/gas reactor process (i.e., non-slurry/non-solvent process) that has the advantage of process simplicity, process efficiency and simplicity of compositional structure relative to the complexity in structure and process of making of compositions in the prior art.

IPC 8 full level
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3. **C08L 23/12** + **C08L 23/16** + **C08L 23/0815**

Citation (search report)
[I] EP 2055738 A1 20090506 - BOREALIS TECH OY [FI]

Designated contracting state (EPC)
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